

BRODSKIY, M.S. , inzh.

Production quality of instruments and the ease with which they can be used. Avtom., telem. i sviaz'. 4 no.5:38-39 My. '60. -
(MIRA 13:8)

1. Leningrad-Baltiyskaya distantziya signalizatsii i svyazi
Okt'yabr'skoy dorogi.
(Railroads--Electronic equipment)

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SOV/63-4-6-23/37

AUTHORS: Ioffe, I. I., Klimova, N. V., Brodskiy, M. S.

TITLE: Brief Communications. The Catalytic Oxidation of Acetophenone Into Benzoic Acid

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 6, pp 799-800 (USSR)

ABSTRACT: The solid acetophenone from phenol-acetone plants is now used as fuel, in the form of phenolic tar. For the preparation of benzoic acid, the above acetophenone was catalytically oxidized both in vapor and in liquid phases. In the vapor phase, oxidation was carried out with air oxygen over a mixture of Va and Mo oxides, tin vanadate, supported on silica gel and chamotte; molar ratio of acetophenone-air 1:30, 1:60, between 200 and 300°. Benzoic acid (32%), maleic acid, and CO₂ were identified. In the liquid phase, oxidation was carried out with air and with pure oxygen, at normal pressure, over Mn, Co, Cu resinsates and strearates. The best results were

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Brief Communications. The Catalytic
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obtained by using Mn resinate as catalyst. The optimal conditions were: 150°, rate of oxygen 5 l/min, the ratio catalyst-acetophenone 2 g:1 g/mole. The conversion was 60-65% and the yield 70-75%. Benzoic acid, formic acid, formaldehyde, maleic acid, and CO₂ were identified.

Purified acetophenone was used in both cases (98.5-99% pure). Technical acetophenone inhibited the oxidation. The method of separation of benzoic acid from the reaction products was a preliminary distillation of recovered acetophenone, followed by extraction of benzoic acid with hot water. After recrystallization, the benzoic acid has mp 122° and 99.5% concentration. The yield by the above process was 83%. There are 4 figures; and 3 references, 2 Soviet, 1 U.S. The U.S. reference is: H. A. Riley, A. B. Gray, Org. Synthesis, 15, Nr 9, 67 (1935).

ASSOCIATION: Voroshilov Scientific-Research Institute of Dyes and Intermediates (Nauchno-issledovatel'skiy institut poluproduktov i krasiteley imeni K. Ye. Voroshilova)

SUBMITTED: April 29, 1959

Card 2/2

IOFFE, I.I., NIKOLAYEV, Yu.T., BRODSKIY, M.S.

Liquid-phase contact-catalytic oxidation of organic compounds on noble metals. Part 1: Oxidation of phenoxyethanol into phenoxyacetic acid. Kin. i kat. 1 no.1:125-128 My-Je '60.
(MIRA 13:8)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley im. K.Ye. Voroshilova, Moskva.
(Platinum) (Acetic acid) (Ethanol)

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16.4600

AUTHOR: Brodskiy, M. S.

S/020/60/133/006/017/031XX
C 111/ C 333

TITLE: Triangular Representation of Some Operators With Completely Continuous Imaginary Part

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6, pp. 1271-1274

TEXT: Let A be a bounded operator in the Hilbert space H with purely real spectrum; P a projection operator in H ; let A_P denote the operator PAP considered in the subspace PH ; let $\sigma^P(A_P)$ be the spectrum of A_P . It is said that P separates the spectrum of A in the point t , if the subspace PH is invariant relative to A and if $\sigma^P(A_P) \subset (-\infty, t]$, $\sigma^P(A_{E-P}) \subset [t, \infty)$.

The operator A is said to belong to the class $\mathcal{L}$, if I. the imaginary part

$K = \frac{A - A^*}{2i}$ of A is completely continuous,

II. the whole spectrum of A lies on the real axis, III. a system of projection operators P_t ($-\infty < t < \infty$) exists such that $P_{t_1} \leq P_{t_2}$ for $t_1 < t_2$ and every P_t separates the spectrum of A in t .

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C 111/ C 333

Triangular Representation of Some Operators With Completely Continuous Imaginary Part

Let $A \in \mathcal{L}$ and $\mathcal{M}$ be a set of real numbers ($\min \mathcal{M} = 0$, $\max \mathcal{M} = 1$). Then a function $E(x)$, $x \in \mathcal{M}$ (Ref. 2) exists with the properties: 1.) The values of $E(x)$ are projectors in H , 2.) from $x_1 < x_2$ it follows $E(x_1) \leq E(x_2)$, 3.) $E(0) = 0$, $E(1) = E$, 4.) $E(x)$ is continuous on $\mathcal{M}$, 5.) every subspace $E(x)H$ is invariant relative to A , 6.) the set of all values of $E(x)$ contains all projectors P_t ($-\infty \leq t < \infty$), 7.) if (a, b) is a complementary interval of the set $\mathcal{M}$, then it exists no subspace H_0 invariant relative to A for which it is $E(a)H \subset H_0 \subset E(b)H$.

Let $\alpha(x) = \max \delta(A_{E(x)})$.

Let the points $(*)$ $0 = x_0 < x_1 < \dots < x_n = 1$, $x_k \in \mathcal{M}$ be chosen so that either x_{k-1} and x_k ($k = 1, 2, \dots, n$) are ends of an interval complementary to $\mathcal{M}$ or $x_k - x_{k-1} < \delta$. Let K be a bounded operator and let the sum

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S/020/60/133/006/017/031XX
C 111/ C 333

Triangular Representation of Some Operators With Completely Continuous Imaginary Part

$$(10) \quad \sum_{k=1}^n E(\xi_k) K \Delta E_k$$

be formed to every decomposition (*), where $x_{k-1} \leq \xi_k \leq x_k$, $\Delta E = E(x_k) - E(x_{k-1})$. If for $\delta \rightarrow 0$ the sums (10) converge in the norm to an operator B, then it is put $B = \int_{\sigma E} E(x) K d E(x)$. The integral $\int_{\sigma E} \alpha(x) d E(x)$ similarly formed converges in the norm in the sense of S. O. Shatunovskiy.

Theorem: Let $A \in \mathcal{L}$ and $E(x), \alpha(x)$ be defined as above. Then it is

$$(11) \quad A = \int_{\sigma E} \alpha(x) d E(x) + 2i \int_{\sigma E} E(x) K d E(x), \text{ where } K = \frac{A - A^*}{2i}.$$

I. Ts. Gokhberg and M. G. Kreyn obtained a weaker theorem.

Card 3/4

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S/020/60/133/006/017/C31XX

C 111/ C 333

Triangular Representation of Some Operators With Completely
Continuous Imaginary Part

The author mentions Yu. J. Lyubich and V. J. Matsayev.

There are 5 references: 4 Soviet and 1 American.

ASSOCIATION: Odesskiy gosudarstvennyy pedagogicheskiy institut
imeni K. D. Ushinskogo (Odessa State Pedagogical
Institute imeni K. D. Ushinskiy)

PRESENTED: April 16, 1960, by V. J. Smirnov, Academician

SUBMITTED: April 14, 1960

Card 4/4

BROADSKLY, M.S.

* Brodskii, M. S. Kongruencii pyramykh khipudetskogo tipa i ikh raznoobrazie. *Trudy Gos. univ. Kazani*, 1964, 19, 1, 1-10. (Russian.)

Prostranstva. Conference of Leningrad, 1941. Moscow, 1941.

Space. Soviet Union. Presentation of the theory of

This monograph contains a presentation of the theory of three-dimensional rectangular concrete structures, including the theory of

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Fig. 1. Dependence of the rate of the reaction of the polymerization of α -methylstyrene on the concentration of the initiator.

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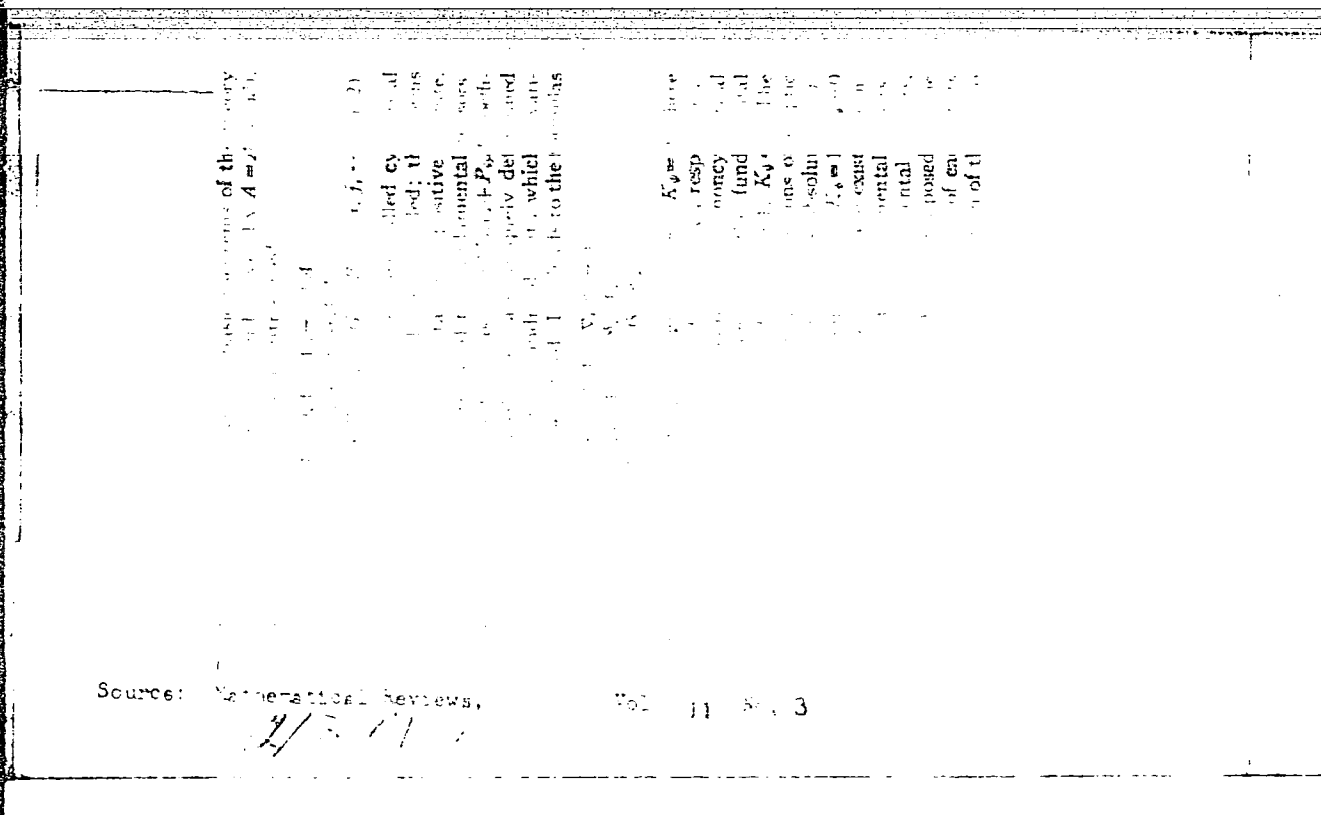
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Source: Mathematical Reviews,

Vol 11 No. 3



Then the theory of congruences is studied by means of two surfaces $x = x(u^1, u^2)$, $y = y(u^1, u^2)$, with $x^2 + y^2 = 1$, $x, y = 1$; corresponding points on these surfaces are connected by a line. The lines are not tangent to surface x , hence the determinant $(xy, x_1, x_2) \neq 0$. Then the points x_1, x_2, x_3, x_4, x_5 determine the absolute polar of the line given by x and y . The points x_1, x_2, x_3, x_4, x_5 are the vertices of a tetrahedron, with the aid of which x_1, x_2, x_3, x_4, x_5 are easily expressed. Now the fundamental relation

$$L_{ij} = x_{ij}x_{ij} - (x_{ij})^2 = (x_{ij})^2 - (x_{ij})^2$$

are introduced. Then

$$(*) \quad \begin{cases} x_1 x_2 = A_{12} \\ x_1 x_3 = A_{13} \\ x_1 x_4 = A_{14} \\ x_1 x_5 = A_{15} \end{cases}$$

With the aid of the Γ_{ij} tensor, the differential equations belonging to the differential geometry of the congruence and similarly V_i with the aid of Γ_{ij} and Γ_{ij} are obtained. Then

$$V_i x_j = \Gamma_{ij} x_j - b_{ij} x_j$$

and we have the following theorem: The differential geometry by means of two surfaces x and y is determined by the tensors Γ_{ij} and b_{ij} are

$$\Gamma_{ij} = \frac{\partial x_j}{\partial u^i} \frac{\partial x_i}{\partial u^j} - \frac{\partial x_j}{\partial u^i} \frac{\partial x_i}{\partial u^j}$$

where B_{ij} and b_{ij} are given by

$$\begin{aligned} \Gamma_{ij} &= B_{ij} - b_{ij} \\ b_{ij} &= L_{ij} \end{aligned}$$

Moreover, if the congruence is of the type

$$x = x(u^1, u^2, u^3, u^4, u^5)$$

then the congruence is a congruence of the type

$$x = x(u^1, u^2, u^3, u^4, u^5)$$

with the aid of which we can determine the differential geometry of the congruence. A property of the absolute congruence is found a normal congruence D for a piece of normal

Source: Mathematical Reviews.

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Vol 11 No. 3

BRODSKIY, M. S.

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USSR/Mathematics - Operator Function 11 Sep 49

"A Linear Operator Function, Invariant With Respect to a Group of Displacements," M. S. Brodskiy, M. B. Livshits, Odessa Pedagogical Institute K. D. Ushinskii, 4 pp

"Dok Ak Nauk SSSR" Vol LXVIII, No 2

Considers linear function $A+AB$ (a assumes all values) of the parameter a , whose coefficients A and B are linear operators in a Hilbertian space H , invariant with respect to a group of displacements G of parameter a according to equality: $A+(a+s)B = U^{-1}(s)(A+ab)U(s)$, where $U(s)$

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USSR/Mathematics - Operator Function (Contd)

11 Sep 49

(a assumes all values) is a certain unitary representation of group G in the space H . Submitted by Acad A. N. Kolmogorov 16 Jul 49.

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BROD'SKIY, M. S.

Brods'kiy, M. S. On harmonic functions on Baire spaces.

Dopovid Akad. Nauk Ukrain. RSR 1952, 377-380 (1952).

(Ukrainian. Russian summary)

Let n_k be a sequence of integers and let Q be the space of sequences x of integers satisfying $0 < x_k < n_k$ for all k , metrized by $d(x, y) = 1/k$ if k is the smallest integer for which $x_k \neq y_k$. Then Q , called a Baire space in this paper, is compact and there is a measure on Q invariant under all isometries of Q . It is shown here that for n_k a bounded sequence every continuous function on Q can be represented by a uniformly convergent "Fourier" series in terms of a natural orthogonal system; this generalizes the case $n_k = 2$ for all k , which can be reduced to the Haar orthogonal system.

M. M. Day (Urbana, Ill.).

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USSR 3

Brojskii, M. S. The multiplication theorem for characteristic matrix-functions of linear operators. Dokl. Akad. Nauk SSSR (N.S.) 97, 761-764 (1954). (Russian)
The author generalizes the notion of a characteristic matrix-function of a bounded linear operator A in a Hilbert space H as follows. Suppose that the operator

$$\mathfrak{J}(A) = i(A^* - A)$$

is of finite rank, and let E be a finite-dimensional subspace containing the range of $\mathfrak{J}(A)$. Let $e_1, e_2, \dots, e_r$ be a complete orthonormal system of eigenvectors of $\mathfrak{J}(A)$ in E with eigenvalues $\omega_1, \omega_2, \dots, \omega_r$ respectively. Let m, s and n be the numbers of positive, zero and negative eigenvalues respectively, and let $p \geq m+s, q \geq n+s$. Now let

$$W(\lambda) = I - i\Pi^*[(A - \lambda P)^{-1}e_n, e_p]\Pi J,$$

where

$$J = \begin{bmatrix} I_p & 0 \\ 0 & -I_s \end{bmatrix}$$

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over

and Π is any rectangular matrix having r linearly independent rows and $p+q$ columns, and such that $\Pi/\Pi^* = \Omega$, Ω being the diagonal matrix whose diagonal elements are $\omega_1, \omega_2, \dots, \omega_r$. Then $W(\lambda)$ is said to be a characteristic matrix-function of the operator A .

Let H_0 be a closed subspace of H with projector P_0 ; let A_0 be defined in H_0 by $A_0 f = P_0 A f$, and let $E_0 = P_0 E$. The author shows how a characteristic matrix-function $W_0(\lambda)$ for A_0 can be derived from $W(\lambda)$, and he calls $W_0(\lambda)$ the projection of $W(\lambda)$ on H_0 . Now let H_1 be an invariant subspace of A , and let H_2 be its orthogonal complement. Let

$W_1(\lambda)$ and $W_2(\lambda)$ be the projections of $W(\lambda)$ on H_1 and H_2 respectively. The author shows that $W(\lambda) = W_1(\lambda)W_2(\lambda)$. Finally, a converse theorem is stated; this concerns the construction of A from A_1 and A_2 .

F. Smithies.

SUBJECT USSR/MATHEMATICS/Functional analysis CARD 1/2 PG - 462
 AUTHOR BRODSKIJ M.S.
 TITLE Characteristic matrix functions of linear operators.
 PERIODICAL Mat.Sbornik, n. Ser. 39, 179-200 (1956)
 reviewed 12/1956

Let A be a linear bounded operator with completely continuous imaginary part $\frac{A-A^*}{2i}$ in the Hilbert space H . Let $e_1, e_2, \dots, e_r$ ($r \leq \infty$) be the orthonormalized basis of the eigenvectors of the operator $\frac{A-A^*}{i}$ in the subspace $E \supseteq \frac{A-A^*}{2} H$. Let ω_1 be the eigenvalues corresponding to the vectors e_1 . Arbitrary finite or infinite matrices J and Π shall satisfy the following conditions:

1) $\Pi^* J \Pi = \begin{pmatrix} \omega_1 & & \\ & \ddots & \\ & & \omega_r \end{pmatrix}$; 2) J is a diagonal matrix, where the elements of the principal diagonal are $+1$ or -1 ; 3) Π is a completely continuous matrix for which the equation

$$\Pi \xi^* = 0 \quad (\xi = \|\xi_1, \xi_2, \dots, \xi_r\|, \sum_{i=1}^r |\xi_i|^2 < \infty)$$

is satisfied only for $\xi = 0$. Now the matrix functions of the complex variable λ :

Mat.Sbornik, n. Ser. 39, 179-200 (1956)

CARD 2/2

PG - 462

$$W(\lambda) = I - i \prod \left\| ((A - \lambda E)^{-1} e_\alpha, e_\beta) \right\| \pi^* J$$

are denoted as characteristic functions of the operator A . The author proves some theorems for $W(\lambda)$, e.g.: I) If the closed linear closure of all vectors $A^n e_\alpha$ ($\alpha=1,2,\dots,r$; $n=0,1,2,\dots$) is identical with H , then the spectrum of A is equal with the set of the singular points of $W(\lambda)$. II) If $H=H_1 \oplus H_2 \oplus \dots \oplus H_n$, where the subspaces $\tilde{H}_k = H_1 \oplus H_2 \oplus \dots \oplus H_k$ ($k=1,2,\dots,n-1$) are invariant with respect to A , then

$$W(\lambda) = W_n(\lambda) \dots W_2(\lambda) W_1(\lambda),$$

where $W_k(\lambda)$ is the (in a certain manner defined) projection of $W(\lambda)$ onto H_k .

INSTITUTION: Odessa.

BRODSKIY M.S.

SUBJECT USSR/MATHEMATICS/Functional analysis CARD 1/1 PG - 785
 AUTHOR BRODSKIY M.S.
 TITLE On Jordan cells of infinite-dimensional operators.
 PERIODICAL Doklady Akad.Nauk 111, 926-929 (1956)
 reviewed 5/1957

An operator in the infinite-dimensional space is called unicellular if one of two arbitrary invariant subspaces of it is a part of the other one. The author gives a sufficient mark of the unicellularity and considers some examples. Furthermore sufficient conditions are established which must be satisfied by the functions $f_0(x), \varphi_1(x), \varphi_2(x), \dots, \varphi_r(x)$ in order that the sequence

$$f_0(x), f_1(x) = Kf_0(x), f_2(x) = Kf_1(x), \dots$$

with

$$Kf = \int_0^x \left[\varphi_1(x) \overline{\varphi_1(t)} + \varphi_2(x) \overline{\varphi_2(t)} + \dots + \varphi_r(x) \overline{\varphi_r(t)} \right] f(t) dt$$

is complete in the $L_2 [0,1]$.

Perlagovskiy
 INSTITUTION: Educational Institute, Odessa.

BRODSKIY, M. S.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. Ezrokhi, I. A. (Kiyev). General Functional-analytic Methods for the Establishing of Algorithms Used in Construction of Residues of a Multidimensional Linear Approximation Formulas. 112-113

Mention is made of Remez, Ye. Ya. and Ezrokhi, I. G.

There are 14 references, 10 of which are USSR, and 4 German.

Functional Analysis Section

114-122

Reports by the following personalities are included:

Brodskiy, M. S. (Odessa). General Multiplication Theorem of the Characteristic Matrix-functions of a Linear Operator and Some of its Applications.

114

Mention is made of Iivshits, M. S.

Card 36/80

BRODSKIY, M.S.

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/1 PG - 864
 AUTHOR BRODSKIY M.S.
 TITLE The inversion problem for systems of linear differential equations with a parameter.
 PERIODICAL Doklady Akad. Nauk. 112, 800-803 (1957)
 reviewed 6/1957

The author considers the system of differential equations

$$\frac{dy_i}{dx} = \frac{1}{\lambda} \sum_{j=1}^n b_{ij}(x) y_j \quad (i=1,2,\dots,n; 0 \leq x \leq 1)$$

with the complex parameter λ . Let the fundamental solution matrix of the system be $W(x, \lambda)$:

$$\frac{dW(x, \lambda)}{dx} = \frac{1}{\lambda} b(x) W(x, \lambda), \quad W(0, \lambda) \equiv I \quad (b(x) = \|b_{ij}(x)\|).$$

The author investigates the question when with the aid of the matrix $W(\lambda) = W(1, \lambda)$ the coefficients b_{ij} of the system of equations can be determined and he gives some sufficient condition for carrying out such a unique determination.

INSTITUTION: Educational Institute, Odessa.

BRODSKIY, N.S.

One I.M. Gel'fand's problem. Usp.mat.nauk 12 no.2(74):129-132
Mr-Apr '57. (MIRA 10:7)

(Operators(Mathematics))

AUTHOR: BRODSKIY, M.S., LIVSHITS, M.S.

42-1-1/13

TITLE: Spectral Analysis of Non-Selfadjoint Operators and Intermediate Systems (Spektral'nyy analiz nesamosopryazhennykh operatorov i promezhutochnyye sistemy)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1958, Vol 13, Nr 1, pp 3-85 (USSR)

ABSTRACT: While the decomposition of a selfadjoint linear operator A into simplest operators can be carried out always with the aid of the so-called "decomposition of the unity", the decomposition of non-selfadjoint operators is very difficult even in finite-dimensional spaces. Only during the last years (also by numerous publications of the authors of the present paper) these difficulties partially could be put aside and a theory of non-selfadjoint operators could be obtained. In the present survey the results of this theory scattered over the whole literature are combined and ordered, where of course only the direction looked after by the authors is considered. This direction bases on the consideration of the so-called characteristic matrix function $w(\lambda)$ of the operator A . This unique analytic function of the parameter λ is an invariant of the unitary transformations of the considered Hilbert space H and its decomposition into factors is connected closely with the determination of the

Card 1/2

Spectral Analysis of Non-Selfadjoint Operators and Intermediate Systems 42-1-1/13

invariant subspaces of the operator. In the last chapter of the present paper the developed theory is applied to the investigation of the intermediate systems which appear at collisions of elementary particles or of atomic nuclei. If the transition of a system from the initial state X to the final state $Y = SX$ happens according to the scheme $X \rightarrow C \rightarrow Y$, then for the energy of the instable system C a non-selfadjoint operator A can be constructed, where it is stated that the S -matrix is identical with the characteristic matrix function of A . 28 Soviet and 9 foreign references are quoted.

AVAILABLE: Library of Congress
Card 2/2 1. Mathematics 2. Spectral analysis

16(1)

AUTHOR: Brodskiy, M.S.

SOV/20-126-6-3/67

TITLE: Integral Representations of Bounded Non-Selfadjoint Operators With a Real Spectrum

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1166 - 1169 (USSR)

ABSTRACT: Let the linear bounded operator A in the Hilbert space H have the properties: 1.) The spectrum of A lies on the real axis 2.) $\frac{A-A^*}{i}$ is completely continuous 3.) the sum of the absolute values of the characteristic numbers of $\frac{A-A^*}{i}$ is finite 4.) A is simple, i.e. H is identical with the closure of the linear envelope of all vectors $A^n f$ ($n = 0, 1, 2, \dots, f \in \frac{A-A^*}{i} H$). Let $\tilde{H} = H \oplus H_0$ be an extension of H . The operator $\tilde{A}$ in $\tilde{H}$ is called simple extension of A , if the subspaces H and H_0 are invariant for it and, if $\tilde{A}$ in H generates the operator A and in H_0 a Hermitian operator.

Card 1/3

Integral Representations of Bounded Non-Selfadjoint
Operators With a Real Spectrum

SOV/20-126-6-3/67

Theorem : If the operator A possesses the properties mentioned above, then there exists a simple extension $\tilde{A}$ so that it is

$$\tilde{A} = \int_0^1 \omega(x) dE(x) + i \int_0^1 E(x) \frac{\tilde{A} - \tilde{A}^*}{i} dE(x)$$

Here l is the sum of the absolute values of the characteristic numbers of $\frac{A - A^*}{i}$; $\omega(x)$ is a bounded non-decreasing function; $E(x)$ is the absolute continuous orthogonal decomposition of the unit which satisfies the condition

$$\text{sp} \left\{ \left| \frac{\tilde{A} - \tilde{A}^*}{i} \right|^{1/2} E(x) \left| \frac{\tilde{A} - \tilde{A}^*}{i} \right|^{1/2} \right\} = \text{sp} \left\{ \left| \frac{A - A^*}{i} \right|^{1/2} E(x) \left| \frac{A - A^*}{i} \right|^{1/2} \right\} = x$$

For the proof the author uses a theorem of M.S. Livshits
[Ref 1,2].

Card 2/3

Integral Representations of Bounded Non-Selfadjoint
Operators With a Real Spectrum

SOV/20-126-6-3/67

There are 2 Soviet references.

ASSOCIATION: Odesskiy gosudarstvennyy pedagogicheskiy institut imeni
A.D. Ushinskogo (Odessa State Pedagogical Institute imeni
A.D. Ushinskiy)

PRESENTED: March 14, 1959, by S.L. Sobolev, Academician

SUBMITTED: March 11, 1959

Card 3/3

BRODSKIY, M.S.

Triangular representation of some operators with completely
continuous imaginary parts. Dokl.AN SSSR 133 no.6:
1271-1274 Ag '60. (MIRA 13:8)

1. Odesskiy gosudarstvennyy pedagogicheskiy institut im.
K.D.Ushinskogo. Predstavleno akad. V.I.Smirnovym.
(Operators(Mathematics))

BRODSKIY, M.S.

Triangular representation of completely continuous operators
with a single point of spectrum. Usp. mat. nauk 16 no.1:135-141
Ja-F '61. (MIRA 14:6)

(Operators (Mathematics))

BRODSKIY, M.S.

Criterion of the unicellularity of Volterra operators. Dokl.AN SSSR
138 no.3:512-514 My '61. (MIRA 14:5)

1. Odesskiy gosudarstvennyy pedagogicheskiy institut im. K.D.Ushinskogo.
Predstavleno akademikom V.I.Smirnovym.
(Operators (Mathematics)) (Spaces, Generalized)

BRODSKIY, M.S.

Multiplicative representation of certain analytical operator functions.
Dokl.AN SSSR 138 no.4:751-754 Je '61. (MIRA 14:5)

1. Odesskiy gosudarstvennyy pedagogicheskiy institut imeni K.D.
Ushinskogo. Predstavleno akademikom V.I.Smirnovym.
(Hilbert space) . (Operators (Mathematics)) (Functional analysis)

BRODSKIY, M.S., starshiy inzhener

Change in the design of the movable contact on a pneumatic pedal. Avtom., telem. i sviaz' 5 no.3:39-40 Mr '61. (MIRA 14:9)

1. Leningrad-Baltiyskaya distantiya signalizatsii i **svyazi** Oktyabr'skoy dorogi.
(Railroads--Signaling--Block system)

BRODSKIY, M.S., starshiy inzh.

Acoustical method for locating the damage in a high-voltage cable. Avtom., telem. i svyaz' 5 no.6:38-39 Je '61. (MIRA 14:9)

1. Leningrad-Baltiyskaya distantziya signalizatsii i svyazi Oktyabr'skoy dorogi.

(Electric cables--Testing) (Electric measurements)

BRODSKIY, M.S.; SHMIL'YAN, Yu.L.

Invariant subspaces of a linear operator and the divisors
of its characteristic function. Usp. mat.nauk 19 no. 1:143-
149 Ja-F '64. (MIRA 17:6)

E 26692-66 EWT(d) IJP(c)

ACC NR: AP6016905

SOURCE CODE: UR/0042/65/020/005/0189/0192

AUTHOR: Brodsky, M. S.

ORG: none

TITLE: Concerning a single lattice integral operator and a theorem of Titchmarsh

SOURCE: Uspekhi matematicheskikh nauk, v. 20, no. 5, 1965, 189-192

TOPIC TAGS: integral operator, function

ABSTRACT: The author uses the fact that the integral operator

$$Af = 2i \int_0^{\infty} f(t) dt,$$

defined on the space $L^{(2)}(0, \omega)$, has a single lattice to prove the following theorem of Titchmarsh, first proved in 1926: If two functions $F(x)$ and $G(x)$ belong to the space $L(0, \omega)$ and the convolution

$$F * G = \int_0^x F(x-y) G(y) dy$$

is equal to zero almost everywhere, then there exist non-negative numbers α and β ($\alpha + \beta = \omega$) such that $F(x)$ and $G(x)$ are both equal to zero almost everywhere in the intervals $[0, \alpha]$ and $[\beta, \omega]$. Orig. art. has: 7 formulas. [JPRS]

SUB CODE: 12 / SUM DATE: 04Feb64 / ORIG REF: 006 / OTH REF: 004
Card 1/1 B.G.

UDC: 517.43

ACC NR: AP7011842

SOURCE CODE: UR/0038/66/030/000/1213/1228

AUTHOR: Drodekly, M. S.; Kisilevskiy, G. E.

ORG: none

TITLE: Criteria for damping Volterra operators with imaginary components in the kernel to be single-lattice

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 30, no. 6, 1966, 1213-1228

TOPIC TAGS: Volterra operator, linear operator

SUB CODE: 12

ABSTRACT: The authors determine a sufficient condition for a certain class of Volterra operators to form a single lattice, and a theorem is proven for the range of a single-lattice operator. Orig. art. has: 43 formulas.

[JPRS: 40,423]

Card 1/1

UDC: 513.88

09.52

0144

12

CA

Determination of water in foods by the distillation and the carbide methods. M. S. Brodskii. *Trudy Leningrad. Inst. Savt. Torgovl* 1940, No. 5, 3-21; *Khim. Rabot. Zvez. A. No. 9, 90(1941)*.—Distn. followed by centrifuging gives results closer to those obtained by drying than does the method of Dean and Stark (C. A. 14, 5145). However, the difference between parallel detns. with centrifuging is greater than that obtained by the Dean and Stark method. The proposed method is satisfactory for butter, flour and starch. Bromobenzene, toluene and xylene are used as distg. liquids. The carbide method can be used for detg. water in sugar. W. R. H.

PROCESSES AND PROPERTIES INDEX																																																																													
04 12 Densification of water in foods. M. S. Brodskii. <i>Trudy Leningrad. Inst. Sost. Tvereli</i> 1940, No. 8, 22-9; <i>Khim. Zhur.</i> 4, No. 9, 60-1(1941).—Drying at 130° possesses a no. of advantages over drying at 105°, but some org. substances undergo changes at this temp. Better results are obtained by drying in vacuo or in a current of an inert gas. A distn. method is also discussed. W. R. Hena																																																																													
ASTM A11 A METALLURGICAL LITERATURE CLASSIFICATION																																																																													
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																										1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																										
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KOZLOV, Petr Mikhaylovich, [deceased]; BRODSKIY, M.S., redaktor; KAMINSKIY, L.S., redaktor; ROMANOVA, Z.A., tekhnicheskii redaktor

[Medical statistics; manual for medical statisticians] Sanitarnaya statistika; posobie dlia sanitarnykh statistikov. Moskva, Gos.izd-vo med. lit-ry, 1955. 230 p.
(MEDICAL STATISTICS) (MIRA 9:4)

BRODSKIY, M. S., kandidat meditsinskikh nauk (Moscow)

"Legal bases for the operation of public health agencies." I.IA.
Bychkov. Reviewed by M.S.Brodskii. Fel'd. i akush. no.2:60-61 F '55.
(MIRA 8:4)

(MEDICAL LAWS AND LEGISLATION)
(BYCHKOV, I.IA.)

KAL'YU, P.I.; LOGINOVA, Ye.A.; IL'IN, S.Ye.; MATSKO, B.M.; STEL'MAKH,
O.H.; BRODSKIY, M.S., red.; ROMANOVA, Z.A., tekhn.red.

[Morbidity in the rural population; from data on visits to
therapeutic and prophylactic institutions in ten rural districts]
Zabolevaemost' sel'skogo naseleniia; po materialam obrashchae-
mosti v lechebno-profilakticheskie uchrezhdeniia desiati sel'skikh
raionov. Pod red. P.I.Kil'in. Moskva, Gos.izd-vo med.lit-ry
Medgiz, 1960. 236 p. (MIRA 14:2)
(PUBLIC HEALTH, RURAL--STATISTICS)

BRODSKIY, M.S.; GORFIN, D.V.; DANYUSHEVSKIY, S.M.

Fourth session of the N.A.Semashko Institute on the Organization
of the Public Health System and the History of Medicine. Sov. zdrav.
20 no.10:89-94 '61. (MIRA 14:9)

(PUBLIC HEALTH)

ERODSKIY, M.S.

On the unicellularity of real Volterra operators. Dokl. AN SSSR
1968:1010-1012 D '68. (MIRA 1682)

1. Odesskiy gosudarstvennyy pedagogicheskiy institut im. K.D.
Ushinskogo. Predstavleno akademikom V.I. Smirnovym.
(Operators (Mathematics))

DRUGALY, H.S., Karel. med. nauk (Moscow)

History of Bolshevik party organizations in higher medical schools; data on the history of the party organization of the medical faculty of Moscow University. Sov. zdrav. 22 no.9: 63-70 '63. (MIRA 17:4)

PETROV, V.V.; BRODSKIY, M.V.; SHOSHENKOV, V.D.

Basis for the selection of a system of automatic channel
switching of radio links. Elektrosviaz' no.11:25-33 N '56.
(MLRA 9:12)

(Radio relay systems)

BRODSKIY, M.V.; PETROV, V.V.; NOVOSPASSKIY, G.D.; ZATSEPIN, V.F.

Remote signaling and remote control for radio relay lines.

Elektrosvyaz' 11 no.8:26-31 Ag '57.

(MIRA 10:12)

(Radio relay systems)

PHASE I BOOK EXPLANATIONS

804/587

USSR. Ministerstvo svyazi. Tshchisloshchye usloviy dlya
koneknykh apparatov i elektronnykh informatsionnykh shemal.
(New Electronic Communication and Power Supply Equipment) Collection of
technical documents. Moscow, Svyazizdat, 1979. 100 p. (Seriya: Tshchisloshchye usloviy)
13,300 copies printed.

Repr. Ed.: V.A. Lytkin; Eds.: Ye.S. Novikova and N.M. Kondrashina;
Tech. Ed.: S.P. Karabulova.

PURPOSE: This collection of articles is intended for technical personnel of
the Ministry of Communications USSR and its subordinate telecommunication
establishments.

CONTENTS: The articles in this collection describe various new pieces of Soviet
equipment used in electrical communications systems. These include:
transmitters, studio equipment, mobile audio amplifiers, transformers, cable
racks, converters, rectifiers, and switchboards. No personalities are
mentioned. References accompany the articles in footnotes.

Repr. Ed.: S.P. Karabulova. A.G. Ch. "Walking Clock" Unit
This article provides telephone time service. The authors describe its
principle of operation, and the block diagram of the unit.

Repr. Ed.: S.P. Karabulova. Ch. M. 77 - 200 Line Transformer with Lightning Arresters.
This power transformer is designed for operation with overhead
transmission lines of wire broadcasting systems. The author describes
the diagram and design of the transformer.

Repr. Ed.: S.P. Karabulova. Subscribers Telegraph Station of the AZA-M Low Capacity
System
This station is designed for installation in oblast or rayon
communication centers of the subscribers' automatic telegraph system.
Its capacity is 10 subscribers' installations and 3 voice-frequency
channels.

Repr. Ed.: S.P. Karabulova. VRS Lead-In Cable Cabinet Packs
The author lists a variety of racks for connecting balanced cables
of varying capacity. A table indicates the types of mounting plates
for each rack. The author also describes circuit diagrams and opera-
tion of the rack assemblies.

Repr. Ed.: S.P. Karabulova. VRS-80 Lead-In Rack
The author briefly describes the structure and operation of this rack,
which serves for connection and commutation of communication cables
and over-head lines, and for protection of station equipment.

Repr. Ed.: S.P. Karabulova. G.A. Volynskiy and V.P. Zhoshukov. Constant Voltage
Converters
These converters provide power supply for communication equipment
by means of a single battery. The article also describes converter
operating principle, advantages and disadvantages, field of applica-
tion and components. The results of experiments with 3 types of con-
verters are shown in a table.

Repr. Ed.: S.P. Karabulova. VRS-56/30 Rectifier Assembly
The rectifier serves as a power supply for equipment used in intra-
rayon and intra-oblast telecommunication and in district telecommu-
nication systems. The author gives the circuit diagram and design of the assembly.
Diagram and structural details of the new board.

Repr. Ed.: S.P. Karabulova. L.S. ROK-1 Combined Switchboard
The switchboard connects local subscribers among themselves and connects
long distance lines with local telephone network subscribers and with
those of the automatic telephone system. The article describes circuit
diagrams of various combinations of connections, structural details of
the components and the assemblies as the whole.

Repr. Ed.: S.P. Karabulova. M.M. ROK-4 Drilling Rig
The rig drills the holes for overhead line poles. The author describes
the functional diagram, design, and operation of the assembly.

AVAILABLE: Library of Congress

804/587

BRODSKIY, Mikhail Valentinovich; PETROV, Viktor Vasil'yevich; PRONIN,
F.A., otv.red.; PETROVA, V.Ye., red.; MARKOCH, K.G., tekhn.red.

[Automation of radio relay lines] Avtomatizatsia radioreleinykh
linii. Moskva, Gos.isd-vo lit-ry po voprosam svyazi i radio,
1960. 49 p. (MIRA 14:1)

(Radio relay systems)

BRODSKIY, N.

Improving safety in the servicing of electric equipment.
Mias. ind. SSSR 30 no.3:45 '59. (MIRA 12:9)

1. Chernovitskiy myasokombinat.
(Electric apparatus and appliances--Safety measures)

BRODSKIY, N.G.; SHESTOPAL, Ya.

[Chemical partial drying of mother beets before lifting]
Preduborochnoe khimicheskoe podsushivanie vysadkov sakharnei
svekly. Moskva, Pishchepromizdat 1956. 45 p. (MLBA 10:4)
(Sugar beets)

BRODSKIY, N.I.; MALYSHEV, B.D., redaktor; SOSULINA, V.N., redaktor;
TOKER, A.M., tekhnicheskiy redaktor

[Booklet for workers engaged in the production of calcium carbide]
Pamiatka dlia rabochikh, saniatykh v proizvodstve karbida kal'tsia.
Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954.
22 p. (MLRA 7:8)

1. Russia (1923-¹⁹²⁴ U.S.S.R.) Ministerstvo stroitel'stva. Otdel
tekhniki bezopasnosti i promyshlennoy sanitarii.
(Calcium carbide--Safety measures)

TKACHEV, A.D., dotsent; BRODSKIY, N.L. (Makhachkala)

"Laboratory manual for normal anatomy in medical schools" by N.N. Lavrov. Reviewed by A.D. Tkachev, N.L. Brodskiy. Fel'd. i akush. 22 no.1:63 Ja '57 (MIRA 10:4)
(ANATOMY, HUMAN--STUDY AND TEACHING) (LAVROV, N.N.)

BRODSKIY, O. [Brods'kyl, O.], akademik

Isotopes. Nauka i zhyttia 12 no.7:26-27, 37 J1 '62. (MIRA 16:1)

1. AN UkrSSR.

(Isotopes)

BRODSKIY, O. [Brods'kiy, O.], inzh.; MAR'YUSHKIN, L. [Mar'iushkin, L.], inzh.

The electric current and vacuum are working. Nauka i zhyttia 12 no.1:
29-30 Ja '63. (MIRA 16'3)

(Vacuum metallurgy)

(Steel—Electrometallurgy)

NAUMOV, L.B., kand.med.nauk., BRODSKIY, O.B.

Deformation of the esophagus in cirrhosis of the liver. Vrach.delo
no.7:731 J1'58 (MIRA 11:9)

1. Krivorozhskiy nauchno-issledovatel'skiy institut gigiyeny
truda i professional'nykh zabolevaniy i Oblastnaya klinicheskaya
spetsbol'nitsa.

(ESOPHAGUS--ABNORMITIES AND DEFORMITIES)
(LIVER--CIRRHOSIS)

BRODSKIY, O.B.

Some functional disorder of the gastrointestinal tract in iron ore
pneumoconiosis (iron silicosis). Vrach.delo no.5:539 My '59.
(MIRA 12:12)

1. Krivorozhskaya oblastnaya klinicheskaya spetsializirovannaya
bol'nitsa.

(DIGESTIVE ORGANS--DISEASES)

(LUNGS--DUST DISEASES)

OSETINSKIY, T.G. (Krivoy Rog, ul. Nevskaya, d.1, kv.27); SHUMAKOV, A.G.;
BRODSKIY, O.B.

Possibilities of tomographic examination in the differential diagnosis
of pneumoconiosis and conio-tuberculosis. Vest. rent. 1 rad. 36 no.5:
30-33 S-0 '61. (MIRA 15:1)

1. Iz rentgenovskogo sektora (zav. - prof. T.G.Osetinskiy)
Krivorozhskogo instituta gigiyeny truda i profzabolevaniy (dir. -
kand.med.nauk A.G.Shumakov).

(LUNGS—DUST DISEASES)

(RADIOGRAPHY)

(TUBERCULOSIS)

(DIAGNOSIS, DIFFERENTIAL)

BRODSKIY, O.B.

Addition to the URDd-110 apparatus for IU.H.Sokolov's X-ray function test. Vest. rent. i rad. 36 no.6:41-42 N-D '61. (MIRA 15:2)

1. Iz oblastnoy klinicheskoy spetsializirovannoy bol'nitsy (glavnyy vrach G.P.Pedpalyy), Krivoy Rog.
(RADIOGRAPHY EQUIPMENT AND SUPPLIES)

BRODSKIY, O.I. [Brods'kiy, O.I.], akademik

The use of isotopes in chemistry. Nauka i zhyttia 9 no.5:20-24
My '59. (MIRA 12:9)

1. AN USSR; chlen-korrespondent AN SSSR; direktor Instituta
fizicheskoy khimii imeni L.V.Pisarzhevskogo AN USSR.
(Tracers(Chemistry))

PORTUGALOV, S.O., dr. med. nauk; BRODSKIY, O.S.

Osteosynthesis using one or two metal screws without plates in diaphysial oblique, oblique-spiral and spiral fractures of the tibia. Khirurgiia 40 no.2:128-132 F '64.

(MIRA 17:7)

1. Travmatologicheskii filial (nauchnyy rukovoditel' -- doktor med. nauk S.O. Portugalov) gosital'noy khirurgicheskoy kliniki (zav. - prof. A.V. Gulyayev) II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova.

BRODSKIY, P., prepodavatel'

How to achieve student success in studies. Prof.-tekh. obr. 17
no.8:23 Ag '60. (MIRA 13:8)

1. Remeslennoye uchilishche No.1, g.Poltava.
(Teaching)

BRODSKIY, P.A.; ISYAKAYEV, V.A.

Comparative efficiency of boring by cumulative and bullet perforation. Razved. i prom. geofiz. no.48:108-113 '63

(MIRA 18:1)

BRODSKIY, P.A.; SHCHERBAKOV, G.V.

Testing reservoirs while drilling wells using a tester on
the cable. Neft. khoz. 41 no. 1:32-35 Ja '63.
(MJRA 17:7)

BRODSKIY, P.A.; TYUMENEV, L.N.; TAL'YANOV, V.V.

Tester attached to a logging cable. Razved.i okh.nedr 28
no.1:48-49 Ja '62. (MIRA 15:3)

1. Volgo-Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta geofizicheskikh metodov razvedki.
(Oil well logging---Equipment and supplies)

BRODSKIY, P.A.; ISYAKAYEV, V.A.

Selecting a group of pickups for formation testers on a cable.
Nefteprom. delo. no.4:25-28 '64. (MIRA 17:6)

1. Volgo-Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta geofizicheskikh metodov razvedki.

BRODSKIY, R.A.

~~Postnatal histological changes in the mucous membrane of the small intestine of rats. Arkh.anat.gist. i embr. 35 no.3:64-65 My-Je '58~~
(MIRA 11:7)

1. Kafedra gistologii (zav. - prof. I.D.Rikhter) Kurskogo gosudarstvennogo meditsinskogo instituta.

(INTESTINES SMALL, anat. & histol.

postnatal changes in mucosa of rats (Rus))

BRODSKIY, R.A. (Donetsk, 50 (Donbass), Universitetskaya ul., 55, kv.38)

Changes in the amount of nucleic acid and in the activity of alkaline phosphatase in the mucosa of the small intestine in white rats and rabbits in the early postnatal period. Arkh. anat., gist. i embr. 42 no.3:92-102 Mr '62. (MIRA 15:5)

1. Kafedra gistologii (zav. - prof. V.A.Ravvin) Donetskogo meditsinskogo instituta.

(INTESTINES)

(NUCLEIC ACIDS)

(PHOSPHATASE)

BRODSKIY, R. F.

Placenta

Clinical aspects of premature labor and pathomorphological changes of the placenta. Akush. i gin. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

~~BRODSKIY, R.F.~~, kand.med.nauk

▲ rare case of injury of the bladder, vagina and mesentery of the small intestines. Akush. i gin. 32 no.5:68-70 S-O '56. (MIRA 10:11)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. I.B.Levit) Ivanovskogo meditsinskogo instituta.

(BLADDER, wounds and inj.
surg.)

(MESENTERIES, wounds and inj.
surg.)

(VAGINA, wounds and injuries
surg.)

TIMOKHINA, M.A., dotsent, kand. med. nauk; BRODSKIY, R.F., kand. med. nauk; SAMOKHINA, A.K.

Dynamics of abortions in women working at a melange combine and ways for their reduction. Sbor. nauch. trud. Ivan. gos. med. inst. no.28:323-326 '63. (MIRA 19:1)

1. Iz kafedry akusherstva i ginekologii (ispolnyayushchiy obyazannosti zav. kafedroy - dotsent M.A. Timokhina) Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor - dotsent Ya.M. Romanov). 2. Zaveduyushchaya zhenskoy konsul'tatsiyey Melanzhevskogo kombinata (for Samokhina).

BRIGIY, R.F., kand. med. nauk

Significance of the placenta acetylcholine in releasing pre-mature labor. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28: 344-351 ' 63. (MIRA 19:1)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. I.B. Levit [deceased]) Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor - dotsent Ya. M. Romanov).

EROTSKIY, R.F., kand. med. nauk

Vascular reflexes in threatening abortion and their changes
under the effect of bromine and caffeine therapy. Akush. i
gin. no.1:35-41 '65. (MIRA 18:10)

1. Kafedra akusherstva i ginekologii (zav.- prof. I.B. Levit
[deceased]) Ivanovskogo meditsinskogo instituta.

BRODSKIY, S.

Tractors

Small book with great deficiencies. (Ways to improve operation of shelterbelt station machinery." Reviewed by S. Brodskiy). Les i step' 4, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952. ~~1952~~, Uncl.

POLYAKOVA, Z.P.; TRAVIN, G.Ya.; BRODSKIY, S.I.

Repeated Wassermann examination of pregnant women is superfluous.
Vest.derm.i ven. no.1:60-61 '62. (MIRA 15:1)

1. Leningradskiy gorodskoy kozhno-venerologicheskoy dispanser.
(SYPHILIS---DIAGNOSIS---WASSERMANN REACTION)
(PREGNANCY)

KAUFMAN, Mikhail Simonovich; KUZNETSOVA, Anna Alekseyevna; KHRUNICHEV,
Yuriy Andreyevich; BRODSKIY, S.I., red.; BORUNOV, N.I.,
tekhn. red.

[Manufacture of spirals, grids, and leads of electronic
vacuum devices]Proizvodstvo spiralei, setok i vvodov elektro-
vakuumnykh priborov. Moskva, Gosenergoizdat, 1962. 262 p.
(MIRA 16:4)

(Electron tubes)

ALEKSANDROVA, Ariadna Timofeyevna; BRODSKIY, S.I.; SAZHIN, I.I.;
SHCHIRENKO, G.N.; GOLUBEV, V.A., inzh., red.; FRIDKIN, L.M.,
tekhn. red.

[Technical equipment for the manufacture of electric vacuum
devices] Tekhnologicheskoe oborudovanie elektrovakuumnogo pro-
izvodstva. Moskva, Gosenergoizdat, 1962. 300 p.

(MIRA 15:6)

(Electronic industries--Equipment and supplies)

A4017342

BOOK EXPLOITATION

s/

Aleksandrova, Ariadna Timofeyevna; Brodskiy, Solomon Isayakovich; Sazhin Ivan Ivanovich; Shchirenko, Georgiy Nikolayevich

Equipment for working high-melting metals in the manufacture of electron vacuum devices (Oborudovaniye dlya obrabotki tugoplavkikh metallov v electrovakuumnom proizvodstve), Moscow, Gosenergoizdat, 1963, 79 p., illus., biblio. 9,000 copies printed.

TOPIC TAGS: high-melting metal, electron vacuum device, machining, tungsten powder, molybdenum powder, wire, rolling, laminating, electron-beam melting

PURPOSE AND COVERAGE: This booklet describes the equipment for chemical and thermal treatment and machining refractory metals used in the manufacture of electron vacuum devices. The book is intended as a text for the section of the course "Mechanical Equipment in the Manufacture of Electron Vacuum Devices" on equipment. It can also serve as a text for students in similar specialties and can be useful to engineers, technicians, and workers engaged in the production of refractory metals.

TABLE OF CONTENTS [abridged]:

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AM4017342

Foreword - - 3

Introduction - - 5

Ch. I. Equipment for obtaining metallic tungsten and molybdenum powders - - 6

Ch. II. Equipment for obtaining compact tungsten and molybdenum - - 13

Ch. III. Equipment for making tungsten and molybdenum wire - - 20

Ch. IV. Equipment for rolling very thin strip and laminating wire - - 53

Ch. V. Equipment for obtaining especially pure refractory metals - - 73

SUB CODE: ML

SUBMITTED: 10 Jul 63

NR REF SOV: 016

OTHER: 000

DATE ACQ: 13 Mar 64

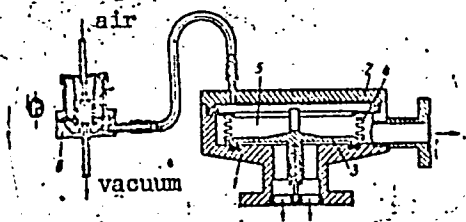
Card 2/2

L 07350-67 -- EWT(d)/EWT(m)/EWP(f)/EWP(v)/EWP(k)/EWP(h)/EWP(l)---DJ
 ACC NR: AP6012166 SOURCE CODE: UR/0413/66/000/007/0091/0091
 AUTHORS: Brodskiy, S. I.; Zaydel', I. N.; Khaskovich, L. L.
 ORG: none
 TITLE: A remote control vacuum valve.³ Class 47, No. 180/42
 SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 7, 1966, 91
 TOPIC TAGS: vacuum technology, valve, remote control system
 ABSTRACT: This Author Certificate presents a remote control vacuum valve¹¹ containing a case, a lid, and a spring-loaded plate with a bellows connection. To simplify its construction and control and to make certain that the time of opening exceeds the time of closing, the valve is provided with a sealed opening formed by the lid, the bellows, and the plate (see Fig. 1). This opening is connected by a pipe to a distributor so that the opening is always in contact either with the compressed air or with the vacuum ducts.
 Card 1/2 UDC: 621.646.247-519

L 07350-67

ACC NR: AP6012166

Fig. 1. 1 - valve case; 2 - lid;
3 - plate; 4 - bellows;
5 - sealed opening;
6 - distributor



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 05Apr63

Card 2/2 afs

L 34826-65 EWT(m)/EWP(t)/EWP(b) JD
ACCESSION NR: AP5007488

S/0286/65/000/004/0099/0099

AUTHORS: Brodskiy, S. I.; Khaskovich, L. L.; Zaydel', I. N. //

TITLE: A device for applying platings in a vacuum, Class 27, No. 100575 //

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 99

TOPIC TAGS: vacuum plating, plating

ABSTRACT: This Author Certificate presents a device for applying platings in a vacuum. The device (see Fig. 1 on the Enclosure) provides for the simultaneous operation of several chambers and produces high quality platings. It consists of a series of chambers and a centralized vacuum system with automatic programmed control. The installation is provided with a system of electromagnetic valves (controlled by a vacuum unit) and with a double slide differential valve actuator. To increase the force needed for opening the valves and to decrease the power requirement of the electromagnets a capacitor, which shunts the additional resistance, is included in the circuit of the power supply. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 02Jan63

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 1/2

BRODSKIY, S.R., kand. med. nauk; GOLOVATENKO, A.I.

Significance of the X-ray examination method for the diagnosis
and study of endocrine disorders. Sbor. trud. Azerb. nauch.-
issl. inst. kur. i fiz. metod. lech. no.9:17-23 '63.

(MIRA 18:8)

PRODSKIY, S.R., dotsent

Role and significance of the time factor in early and timely
detection of lung cancer. Sbor.trud.Azerb.nauch.-issl.inst.kur.
i fiz.metod.lech. no.3:133-138 '59. (MIRA 16:4)
(LUNG—CANCER)

BRODSKIY, S.R.

Significance of roentgenological examination of the esophagus in diagnosis of bronchial cancer and other pulmonary diseases. Klin. med., Moskva no.3:50-56 Mr '50. (CLML 19:2)

1. Of the Roentgenological Division (Head -- Senior Scientific Worker S.R.Brodskiy) of the Azerbaydzhan Scientific-Research Clinical Institute (Director -- Honored Worker in Science I.M.Orudzhev), Baku.

BRODSKIY, S. R., Doc Med Sci (diss) -- "Clinical-X-ray diagnosis of primary lung cancer". Yerevan, 1959. 30 pp (Yerevan State Med Inst), 170 copies (KL, No 14, 1960, 136)

BRODSKIY, S. Ya.

"River Crayfish (Astacidae) of the Ukrainian SSR, Their Biology and Trade Value." Cand Biol Sci, Inst of Zoology, Acad Sci Ukraine SSR, Kiev, 1954.
(RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

BRODSKIY, S.Ya.

Artificial cultivation of river crayfish as a perfect way of reproducing its stock. Vop. ekol. 4:94-95 '62. (MIRA 15:11)

1. Institut rybnogo khozyaystva Ukrainского soveta narodnogo khozyaystva, Kiyev.

(Ukraine--Crayfish)

STROKOV, V.V., kandidat biologicheskikh nauk (Moskva); SHPET, G.I., kandidat biologicheskikh nauk; BRODSKIY, S.Ya., kandidat biologicheskikh nauk; DUBININ, V.B., professor.

Instances of cannibalism in animals. Priroda 45 no.7:97-99 J1 '56.
(MIRA 9:9)

1.Nauchno-issledovatel'skiy institut prudevoe i ozerne-rechnoe
rybnoe khozyaystva, Kiyev (for Shpet, Brodskiy).2.Zoologicheskiy
institut Akademii nauk SSSR, Leningrad (for Dubinin).
(Cannibalism (Animals))

BRODSKIY, S.Ya.

Characteristics of the development of the commercial
crayfish population in Kakhovka and other reservoirs of
the Dnieper River. *Gidrobiol.zhur.* 1 no.5:35-42 '65.

(MIRA 18:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut rybnogo
khozyaystva, Kiev.

BRODSKIY, Sh. S.

"The Medical Faculty of the Moscow State University During the Great October Socialistic Revolution, the Civil War Years and at the Beginning of the Restoration Period (1917-1922)." Sub 27 Jun 51, First Moscow Order of Lenin Medical Inst.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

ERODSKII, V. [Brodskiy, V.]

Labor in automotive transportation organized on the basis of
business accounting. Transp delo 6 no.9/10:51-63 '54.

BRODSKIY, V.

Organizing the work of the motor pools on a business accounting
basis. Avt.transp. 32 no.7:9-13 J1 '54. (MLRA 7:9)
(Transportation, Automotive--Accounting)

BRODSKIY, V.; BAS, L.; LACHINOV, A.

Pneumatic tool for polishing car bodies. Avt.transp.33 no.9:
23-24 S'55. (MIRA 8:12)
(Automobiles--Apparatus and supplies)

BRODSKIY, V.

Netsukes. Vokrug sveta no.6:28-29 Je '55. (MLRA 8:9)
(Netsukes)

BRODSKIY, V.

Practice with using the "assembly" method of repairing automobiles.
Avt.transp.34 no.3:17-18 Mr '56. (MIRA 9:7)

1.Nachal'nik Rishkey AKT 1.
(Automobiles--Repairing)

BAS, L., inzhener; BRODSKIY, V., inzhener.

The GARO (model 155) compressor. Avt. transp. 34 no.6:14-16
Je '56.

(MLRA 9:9)

(Air compressors)

BRODSKIY, V.

Organization of automobile maintenance in the Riga Repair and
Maintenance Shop No.1. Avt.transp. 35 no.4:13-15 Ap '57.

(MLRA 10:5)

1.Nachal'nik avtotransportnoy kontory no.1.
(Automobiles--Maintenance)

BRODSKIY, V.; BAS, L.

Equipment for checking and adjusting automobile headlights. Avt.
transp. 36 no.3:14 Mr '58. (MIRA 11:3)
(Automobiles--Lighting--Testing)

BRODSKIY, V. inzh.

The 1101-type stationary compressor unit. Ayt. transp. 37
no.10:30-33 0 '59, (MIRA 13:2)
(Air compressors)

BRODSKIY, V., inzh.; DEVYATKINA, Z., inzh.

Stand for checking hydraulic shock absorbers. Avt. transp. 37
no.12:18-19 D '59. (MIRA 13:3)
(Automobiles--Shock absorbers)